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APPLICANT(S) : Miles Andrew NUNN
SERIAL NO. : 10/558,937 ✓ EXAMINER: Unknown
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CERTIFICATE OF MAILING UNDER 37 CFR §1.8

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Carolyn Di Meglio
(Name of Depositor)

Carol Di Meglio 12/4/06
(Signature and Date)

Commissioner for Patents
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Dear Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with Applicant's and Applicant's representatives' Duty of Disclosure under 37 CFR § 1.56, and pursuant to 37 CFR §1.97, Applicant(s) submit herewith documentary information for consideration by the Examiner. Information herein cited is only set forth in fulfillment of Applicant's duty of candor in disclosing all information brought to his attention, and is not an admission that it can be used adversely. The publications forwarded herewith are listed on the enclosed Form PTO-1449. Applicant(s) request that the Examiner, upon reviewing the enclosed materials, initial the enclosed form and return a copy thereof in accordance with the instructions on the form.

Enclosed please find a copies of References **BA** through **DY** listed on the attached Form PTO-1449. No fee is believed due for the filing of this statement inasmuch as it is being filed before the mailing of the first official action on the merits. However, should the Patent and Trademark Office determine otherwise, authorization is hereby given to charge Deposit Account No. 11-1153 for this filing.

Respectfully submitted,

Sarah J. Fashena

Sarah J. Fashena, Ph.D.
Attorney for Applicants
Registration No. 57,600

KLAUBER & JACKSON LLC
411 Hackensack Avenue
Hackensack, New Jersey 07601
(201) 487-5800

Date: October 24, 2006



1449 IRSY. 7.801 U.S. Department of Commerce Patent and Trademark Office	ATTORNEY DOCKET NO.	2488-1-012PCT/US
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LIST OF DOCUMENTARY INFORMATION CITED BY APPLICANT (Use several sheets if necessary)	APPLICANT	Miles Andrew NUNN
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	BA	WO 93/17099	9/2/93	PCT			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CA	Bao et al., Transgenic Expression of a Soluble Complement Inhibitor Protects Against Renal Disease and Promotes Survival in MRL/lpr Mice, J. Immunol., 168:3601-3607 (2002)
	CB	Bedford et al., Influence of complement depletion on sperm function in the female rabbit, J. Reprod. Fertil., 69:523-528 (1983)
	CC	Biesecker et al., Derivation of RNA aptamer inhibitors of human complement C5, Immunopharmacology, 42:219-230 (1999)
	CD	Cicchetti et al., Combined Inhibition of Apoptosis and Complement Improves Neural Graft Survival of Embryonic Rat and Porcine Mesencephalon in the Rat Brain, Exp. Neurol., 177:376-384 (2002)

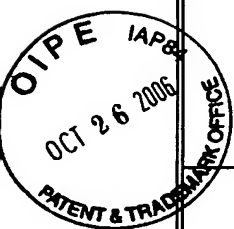
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CE	Diamond et al., Human CD59 expressed in transgenic mouse hearts inhibits the activation of complement, 3:305-312 (1995)
CF	Ember et al., Characterization of Complement Anaphylatoxins and Their Biological Responses, In: The Human Complement System in Health and Disease, Volanakis, J.E., Frank, M.M. (Eds.), Marcel Dekker, New York, 241-284
CG	Fecke et al., Protection of hDAF-transgenic porcine endothelial cells against activation by human complement: role of the membrane attack complex, Xenotransplantation, 9:97-105 (2002)
CH	Fiorante et al., Low molecular weight dextran sulfate prevents complement activation and delays hyperacute rejection in pig-to-human xenotransplantation models, Xenotransplantation, 8:24-35 (2001)
CI	Fitch et al., Pharmacology and Biological Efficacy of a Recombinant, Humanized, Single-Chain Antibody C5 Complement Inhibitor in Patients Undergoing Coronary Artery Bypass Graft Surgery With Cardiopulmonary Bypass, Circulation, 100:2499-2506 (1999)
CJ	Frei et al., Generation of a monoclonal antibody to mouse C5 application in an ELISA assay for detection of anti-C5 antibodies, Molecular Cell. Probes, 1:141-149 (1987)
CK	Giclas, P.C., Classical pathway evaluation and alternative pathway evaluation (sections 13.1. and 13.2), In: Current Protocols in Immunology, Editors: J.E. Coligan, A.M. Kruisbeek, D.H. Marguiles, E.M. Shevach and W. Strober, Vol. 3 (1994)
CL	Homeister et al., Effects of Complement Activation in the Isolated Heart, Circulation Research, 71:303-319 (1992)
CM	Hebell et al., Suppression of the Immune Response by a Soluble Complement Receptor of B Lymphocytes, 254:102-105 (1991)
CN	Jarvis et al., IgM rheumatoid factor and the inhibition of covalent binding of C4b to IgG in immune complexes, Clin. Exp. Rheumatol., 11:135-141 (1993)
CO	Kohl, Anaphylatoxins and infectious and non-infectious inflammatory diseases, Molecular Immunology, 38:175-187 (2001)

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CP	Konttinen et al., Complement in acute and chronic arthritides: assessment of C3c, C9 and protectin (CD59) in synovial membrane, Ann. Rheum. Dis., 55:888-894 (1996)
CQ	Kroshus et al., A recombinant soluble chimeric complement inhibitor composed of human CD46 and CD55 reduces acute cardiac tissue injury in models of pig-to-human heart transplantation, Transplantation, 69:2282-2289 (2000)
CR	Link et al., Selection of phage-displayed anti-guinea pig C5 or C5a antibodies and their application in xenotransplantation, Mol. Immunol., 36:1235-1247 (1999)
CS	Miletic, et al., Complement activation in stored platelet concentrates, Transfusion, 33:150-154 (1993)
CT	Mulligan et al., Endothelial Targeting and Enhanced Antiinflammatory Effects of Complement Inhibitors Possessing Sialyl Lewis ^x Moieties, J. Immunol., 162:4952-4959 (1999)
CU	Paesen et al., Tick Histamine-Binding Proteins: Isolation, Cloning, and Three-Dimensional Structure, Molecular Cell, 3:661-671 (1999)
CV	Paesen et al., Tick histamine-binding proteins: lipocalins with a second binding cavity, Biochim. Biophys. Acta., 1482:92-101 (2000)
CW	Pratt et al., Effects of Complement Inhibition with Soluble Complement Receptor-1 on Vascular Injury and Inflammation during Renal Allograft Rejection in the Rat, Am. J. Pathol., 149:2055-2066 (1996)
CX	Rehrig et al., Complement Inhibitor, Complement Receptor 1-Related Gene/Protein γ-Ig Attenuates Intestinal Damage After the Onset of Mesenteric Ischemia/Reperfusion Injury in Mice, J. Immunol., 167:5921-5927 (2001)
CY	Ribeiro, Ixodes dammini: Salivary Anti-complement Activity, Exp. Parasitol., 64:347-353 (1987)
CZ	Rollins et al., Retroviral Vector Producer Cell Killing in Human Serum Is Mediated by Natural Antibody and Complement: Strategies for Evading the Humoral Immune Response, Hum. Gene Ther., 7:619-626 (1996)

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DA	Rollins et al., Anti-C5 Single Chain Antibody Therapy Blocks Complement & Leukocyte Activation and Reduces Myocardial Tissue Damage in CPB Patients, Mol. Immunol., 35:397-397 (1998)
DB	Sahu et al., Complement inhibitors: a resurgent concept in anti-inflammatory therapeutics, Immunopharmacology, 49:133-148 (2000)
DC	Sandoval et al., Distal Recognition Site for Classical Pathway Convertase Located in the C345C/Netrin Module of Complement Component C5, The Journal of Immunol., 165:1066-1073 (2000)
DD	Schiller et al., Expression of a Soluble Complement Inhibitor Protects Transgenic Mice from Antibody-Induced Acute Renal Failure, J. Am. Soc. Nephrol., 12:71-79 (2001)
DE	Smith et al., Membrane-targeted complement inhibitors, Mol. Immunol., 38:249-255 (2001)
DF	Solomon et al., Transmission of antibody-induced arthritis is independent of complement component 4(C4) and the complement receptors 1 and 2 (CD21/35), Eur. J. Immunol., 32:644-651 (2002)
DG	Tanaka et al., Effect of Anticomplement Agent K76 COOH On Hamster-To-Rat and Guinea Pig-to-Rat Heart Xenotransplantation, Transplantation, 62:681-688 (1996)
DH	Thomas et al., Sulfonated Dextran Inhibits Complement Activation and Complement-Dependent Cytotoxicity in an <i>in vitro</i> Model of Hyperacute Xenograft Rejection, Mol. Immunol., 33:643-648 (1996)
DI	Vakeva et al., Myocardial Infarction and Apoptosis After Myocardial Ischemia and Reperfusion-Role of the Terminal Complement Components and Inhibition by Anti-C5 Therapy, Circulation, 97:2259-2267 (1998)
DJ	Valenzuela et al., Purification, Cloning, and Expression of a Novel Salivary Anticomplement Protein from the Tick, <i>Ixodes scapularis</i> , J. Biol. Chem., 275:18717-18723 (2000)
DK	Wang et al., Anti-C5 monoclonal antibody therapy prevents collagen-induced arthritis and ameliorates established disease, Proc. Natl. Acad. Sci. USA, 92:8955-8959 (1995)

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	DL	Wang et al., Amelioration of lupus-like autoimmune disease in NZB/WF ₁ mice after treatment with a blocking monoclonal antibody specific for complement component C5, Proc. Natl. Acad. Sci. USA, 93:8563-8568 (1996)
	DM	Ward et al., Use of Animal Models to Define Complement Functions, In: Contemporary Immunology: Therapeutic Interventions in the Complement System, Lambris, J.D., Holers, V.M. (Eds.), Humana Press, Totowa, NJ, 237-253 (2000)
	DN	Weisman et al., Soluble Human Complement Receptor Type 1: <i>In vivo</i> Inhibitor of Complement Suppressing Post-Ischemic Myocardial Inflammation and Necrosis, Science, 249:146-151 (1990)
	DO	Wyss-Coray et al., Prominent neurodegeneration and increased plaque formation in complement-inhibited Alzheimer's mice, Proc. Natl. Acad. Sci. USA, 99:10837-10842 (2002)
	DP	Zhang et al., Targeting of Functional Antibody-Decay-accelerating Factor Fusion Proteins to a Cell Surface, J. Biol. Chem., 276:27290-27295 (2001)
	DQ	McKenzie et al., Regulation of Complement Activity by Vaccinia Virus Complement-Control Protein, J. of Infectious Diseases, 166:1245-1250 (1992)
	DR	Asghar et al., Inhibition of Complement by a Series of Substituted 2-Aryl-1, 3-Indandiones: Interaction with the Fifth Component of Complement, Molecular Immunology, 23:459-465 (1986)
	DS	White, Jr. et al., Suppression of mouse complement activity by contaminants of technical grade pentachlorophenol, Agents and Actions, 16:385-392 (1985)
	DT	Feuillard et al., Comparative study of <i>in vitro</i> inhibition of activation of the classical and alternative pathways of human complement by the magnesium and sodium salts of the anti-inflammatory peptide N-acetyl-aspartyl-glutamic acid (NAAGA), Agent and Actions, 32:343-346 (1991)
	DU	Baranda et al., Purification, N-terminal sequencing and diagnostic value of the major antigens of <i>Ornithodoros erraticus</i> and <i>O. moubata</i> , Veterinary Parasitology, 87:193-206 (2000)

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	DV	Astigarraga et al., Host immune response evasion strategies in <i>Ornithodoros erraticus</i> and <i>O. moubata</i> and their relationship to the development of an antiargasid vaccine, <i>Parasite Immunology</i> , 19:401-410 (1997)
	DW	Keller et al., Cloning of the cDNA and Expression of Moubatin, an Inhibitor of Platelet Aggregation, <i>J. Biological Chemistry</i> , 268:5450-5456 (1993)
	DX	Mans et al., Pathogenic mechanisms of sand tampan toxicoses induced by the tick, <i>Ornithodoros savignyi</i> , <i>Toxicon</i> , 40:1007-1016 (2002)
	DY	Mans et al., Identification of putative proteins involved in granule biogenesis of tick salivary glands, <i>Electrophoresis</i> , 22:1739-1746 (2001)

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